SONY KV-E3433

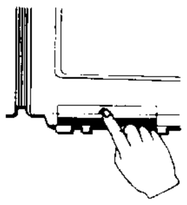
MODEL

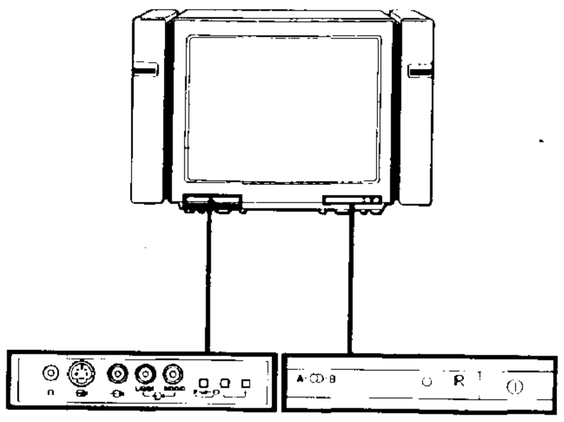
OWNER'S MANUAL

1-1. OVERVIEW

This section briefly describes the buttons and controls on the TV set and on the Remote Commander. For more information, refer to the pages given next to each description.

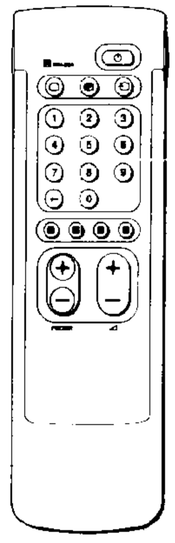
TV set - front





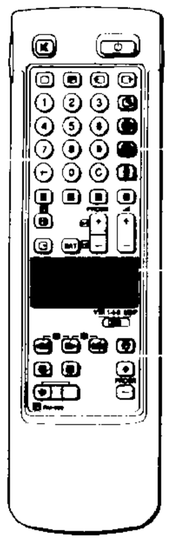
Symbol	Name	Refer to page
⏻	Main power switch	42
⏻	Standby indicator	42
A-CD-B	Stereo A/B indicators	44
Ω	Headphones jack	50
–Ⓢ 3, –⊖ 3, –⊖ 3,	Input jacks (S-video/video/audio)	50
P→◿←⊖	Function selector (Programme/volume/input)	43
–/+	Adjustment buttons for function selector	43

Remote Commander



Simple side

TV/Teletext operation



Full-Function side

PIP operation

Menu operation

Video operation

Note
The SAT button does not operate with this TV.

TV-operation

Symbol	Name	Refer to Page
🔇	Mute on/off button	43
⏻	Standby button	42
▢	TV power on/TV mode selector button	42
▤	Teletext button	43
⊖	Input mode selector	43
⊖→	Output mode selector	51
1,2,3,4,5,6, 7,8,9, and 0	Number buttons	42
–/– –	Double-digit entering button	42
C	Direct channel entering button	41
■–	Volume control button	42
PROGR +/–	Programme selectors	42
▤▤	Teletext page access buttons	47
●	Picture adjustment button	44
♪	Sound adjustment button	44
⊙	On-screen display button	43
▤	Teletext hold button	47
⏲	Time display button	43
■■■	Fastext buttons	47

PIP (Picture-in-picture) operation

Symbol	Name	Refer to Page
◔	PIP on / off button	46
↑	PIP source selector	46
◔	Swap button	46
◔	PIP position changing button	46

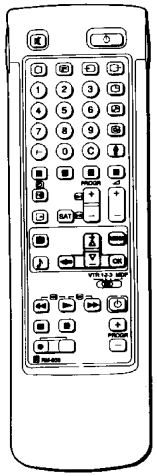
Menu operation

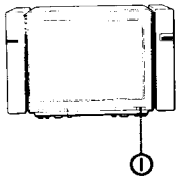
Symbol	Name	Refer to Page
MENU	Menu on / off button	36
∧+/∨–	Select buttons	36
OK	OK (confirming) button	36
←	Back button	36

Video operation

Symbol	Name	Refer to Page
VTR1/2/3 MDP	Video equipment selector	52
◀◀ ▶ ▶▶ ■ ❚❚ ● ⏻ PROGR +/–	Video equipment operation buttons	52

1-2. TUNING IN TO TV STATIONS





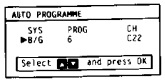
To go back to main menu
Keep pressing ⇐ .

To go back to the normal TV picture
Press MENU.

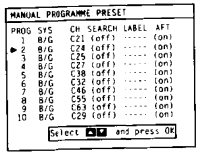
Note on the Demo function
If you choose Demo on the main menu, you can see a sequential demonstration of the menu functions.

Once you have set up the TV, you can choose the language of the menu. Then you should preset the channels (up to 100 channels) by choosing either the automatic or manual method.

The automatic method is easier if you want to preset all receivable channels at once. Use the manual method if you only have a few channels and want to preset channels one by one. The manual method is also convenient for allocating programme numbers to various video input sources.



Auto Menu


MANUAL PROGRAMME PRESET
PROG SYS CH SEARCH LABEL AFT
1 B/G C21 (off) ----- (on)
▶ 2 B/G C24 (off) ----- (on)
3 B/G C25 (off) ----- (on)
4 B/G C27 (off) ----- (on)
5 B/G C38 (off) ----- (on)
6 B/G C32 (off) ----- (on)
7 B/G C46 (off) ----- (on)
8 B/G C55 (off) ----- (on)
9 B/G C63 (off) ----- (on)
10 B/G C29 (off) ----- (on)
Select ▲▼ and press OK

Manual Menu

Before you begin

- Check that the Full-Function side of the Remote Commander is visible.
- Locate Menu operation buttons on the Remote Commander. They are shaded in the illustration at the left.

❶ Display the Menu

1 Depress ⏻ on the TV.

The TV will switch on. If the standby indicator on the TV is lit, press ▢ or a number button on the Remote Commander.

2 Press the MENU button.
The main menu appears.

MENU

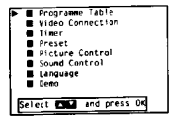


Fig. 1.

❷ Choose a language

1 Select Language with the △+ or ▽– button and press the OK button.
The LANGUAGE menu appears. (See Fig. 2)

2 Select the language you want with △+ or ▽– , press OK, and then press ⇐.
Now, choose one of the following methods
"Preset Channels Automatically"
or
"Preset Channels Manually".

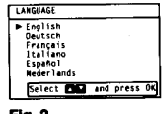


Fig. 2.

With this method, you can preset all receivable channels at once.

To stop automatic channel presetting
Press ⇐ on the Remote Commander.

Notes
- After presetting the channels automatically, you can check which channels are stored on which programme positions. For details, see "Using the Programme Table" on page 45.
- You can exchange the programme positions to have them appear on screen in the order you like. For details, see "Exchanging the Programme Positions" on page 39.

Use this method if there are only a few channels in your area to preset or if you want to preset channels one by one. You may also allocate programme numbers to various video input sources.

If you have made a mistake
Press ⇐ to go back to the previous position.
To go back to main menu
Keep pressing ⇐.
To go back to the normal TV picture
Press MENU.

❸ Preset channels automatically

1 Select Preset with △+ or ▽– and press OK.
The PRESET menu appears. (See Fig. 3.)

2 Select Auto Programme with △+ or ▽– and press OK.
The AUTO PROGRAMME menu appears. (See Fig. 4.)

3 Press OK.
Select if necessary the TV broadcast system with △+ or ▽– and press OK. (B/G for western European countries, D/K for eastern European countries) The first element of the "PROG" number will be highlighted.

4 Select the programme (number button) from which you want to start presetting. Select the first element of the double-digit number with △+ or ▽– or the number buttons (e.g. For "04", select "0" here) and press OK.
The second element of "PROG" will be highlighted.

5 Select the second element of the double-digit number with △+ or ▽– or the number buttons (e.g. For "04", select "4" here)
(See Fig. 5.) and press OK.

6 Select "C" or "S" with △+ or ▽– and press OK.
The automatic channel presetting starts.
When presetting is finished the preset menu reappears.
All available channels are now stored on successive number buttons.

Fig. 3.

Fig. 4.

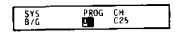


Fig. 5.

❸ Preset channels manually

1 Select Preset with △+ or ▽– and press OK.
The PRESET menu appears. (See Fig. 6.)

2 Select Manual Programme preset with △+ or ▽– and press OK.
The MANUAL PROGRAMME PRESET menu appears. (See Fig. 7.)

Fig. 6.

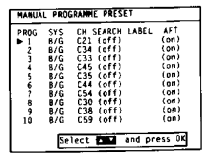

MANUAL PROGRAMME PRESET
PROG SYS CH SEARCH LABEL AFT
▶ 1 B/G C21 (off) (on)
2 B/G C34 (off) (on)
3 B/G C33 (off) (on)
4 B/G C45 (off) (on)
5 B/G C35 (off) (on)
6 B/G C44 (off) (on)
7 B/G C54 (off) (on)
8 B/G C30 (off) (on)
9 B/G C38 (off) (on)
10 B/G C59 (off) (on)
Select ▲▼ and press OK

Fig. 7.

To tune in a channel by frequency
After selecting F in step 5, enter three digits using the number buttons.

3 Using △+ or ▽–, select the programme position (number button) to which you want to preset a channel, and press OK.

4 Select if necessary the TV broadcast system (B/G for western European countries, D/K for eastern European countries) or a video input source (EXT) with △+ or ▽–.
Then press OK. The CH position will be highlighted. (See Fig. 8.)

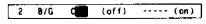


Fig.8.

5 Using △+ or ▽–, select C (to preset a regular channel), or F (to tune in by frequency) and press OK.
The first element of the "CH" number will be highlighted.
If you have selected EXT in step 4, select the video input source with △+ or ▽–. (See Fig. 9.)

Fig.9.

There are two ways to preset channels. If you know the channel number, go to step "6-Manual",

or

if you don't know the channel number, go to step "6- Search".

6 ***Manual***

-a Select the first element of the "CH" number with △+ / ▽– or the number buttons and press OK.
The second element of the "CH" number will be highlighted.

-b Select the second element of the number with △+ / ▽– or the number buttons.
The selected number appears. (See Fig. 10.)

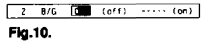


Fig.10.

-c Press OK
The "SEARCH" position is highlighted and the selected channel is now stored. (See Fig. 11.)

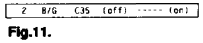


Fig.11.

If you have made a mistake
Press ⇐ to go back to the previous position.
To go back to main menu
Keep pressing ⇐.
To go back to the normal TV picture
Press MENU.

-d Press OK until the cursor appears by the next programme position.

-e Repeat steps 3 to 6 to preset other channels.

6 ***Search***

-a Press OK repeatedly until the colour of the SEARCH position changes.

-b Start searching for the channel with △+ (up) or ▽– (down).
The CH position changes colour. (See Fig. 12.)
The CH number starts counting up or downwards. When a channel is found, it stops. (See Fig. 13.)

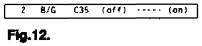


Fig.12.

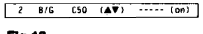


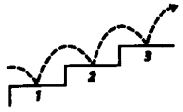
Fig.13.

-c Press OK if you want to store this channel. If not, press △+ or ▽– to continue channel searching.

-d Press OK until the cursor appears by the next programme position.

-e Repeat steps 3 to 6 to preset other channels.

1-3. ADDITIONAL PRESETTING FUNCTIONS



This section shows you additional presetting functions such as exchanging or skipping programme positions, captioning a station name, manual fine-tuning, and using the parental lock.

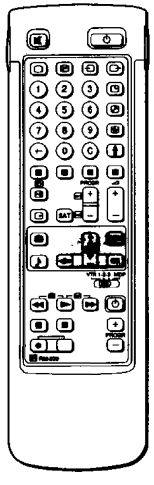
Before you begin

- Check that the Full Function side of the Remote Commander is visible
- Locate the Menu operation buttons.

Exchanging Programme Positions

With this function, you can exchange the programme positions to a preferable order.

PROGRAMME EXCHANGE



For programme positions beyond 15
The display scrolls automatically.

1 Press MENU to display the main menu.

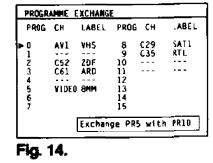
2 Select `Preset` with △+ or ▽– and press OK.
The `PRESET` menu appears.

3 Select `Programme Exchange` with △+ or ▽– and press OK.
The `PROGRAMME EXCHANGE` menu appears. (See Fig. 14.)

4 Using △+ or ▽–, select the programme position you want to exchange with another and press OK.
The colour of the selected position changes. (See Fig. 15.)

5 Using △+ or ▽–, select the programme posititon to be exchanged and press OK. Now the two programme positions have been exchanged. (See Fig. 16.)

6 Repeat steps 4 and 5 to exchange other programme positions.


PROGRAMME EXCHANGE
PROG CH LABEL PROG CH LABEL
▶0 AV1 VHS 8 C29 SAT1
1 --- --- 9 C35 RTL
2 C52 ZDF 10 --- ---
3 C61 ARD 11 --- ---
4 --- --- 12
5 VIDEO 8MM 13
6 14
7 15
Exchange PR5 with PR10
Fig. 14.

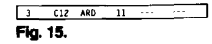
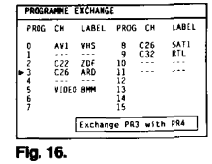


Fig. 15.


PROGRAMME EXCHANGE
PROG CH LABEL PROG CH LABEL
0 AV1 VHS 8 C26 SAT1
1 --- --- 9 C32 RTL
2 C22 ZDF 10 --- ---
▶3 C26 ARD 11 --- ---
4 --- --- 12
5 VIDEO 8MM 13
6 14
7 15
Exchange PR3 with PR4
Fig. 16.

If you have made a mistake
Press ⇐ to go back to the previous position.
To go back to main menu
Keep pressing ⇐.
To go back to the normal TV picture
Press MENU.

Tuning in a Channel Temporarily

You can tune in a channel temporarily, even when it has not been preset. Use the buttons on the Full-Function side of the Remote Commander.

1 Press C on the Remote Commander.
The indication "C" appears on the screen.

2 Enter the double-digit channel number using the number buttons (e.g. for channel 4, first press 0, then 4).
The channel appears.
However, the channel will not be stored.

MANUAL PROGRAMME PRESET

Skipping Programme Positions

You can skip unused programme positions when selecting programmes with the PROGR +/- buttons. However, the skipped programmes may still be called up when you use the number buttons.

1 Press MENU to display the main menu.

2 Select `Preset` with △+ or ▽– and press OK.
The `PRESET` menu appears.

3 Select `Manual Programme Preset` with △+ or ▽– and press OK.
The `MANUAL PROGRAMME PRESET` menu appears. (See Fig.18.)

4 Using △+ or ▽–, select the programme position which you want to skip and press OK.
The "SYSTEM" position changes colour.

5 Press △+ or ▽– until `---` appears in the SYSTEM position. (See Fig. 18.)

6 Press OK. (See Fig. 19)
When you select programmes using the PROGR +/- buttons, the programme position will be skipped.

7 Repeat steps 4 to 6 to skip other programme positions.

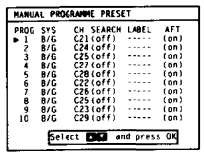

MANUAL PROGRAMME PRESET
PROG SYS CH SEARCH LABEL AFT
▶ 1 B/G C21(off) ----- (on)
2 B/G C24(off) ----- (on)
3 B/G C25(off) ----- (on)
4 B/G C27(off) ----- (on)
5 B/G C28(off) ----- (on)
6 B/G C22(off) ----- (on)
7 B/G C26(off) ----- (on)
8 B/G C25(off) ----- (on)
9 B/G C23(off) ----- (on)
10 B/G C29(off) ----- (on)
Select ◀▶ and press OK

Fig. 17.

Fig. 18.

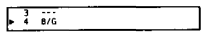


Fig. 19.

MANUAL PROGRAMME PRESET

Captioning a Station Name

You can "name" a channel or an input video source using up to five characters (letters or numbers) to be displayed on the TV screen (e.g. ZDF). Using this function, you can easily identify which channel or video source you are watching.

1 Press MENU to display the main menu.

2 Select `Preset` with △+ or ▽– and press OK.
The `PRESET` menu appears.

3 Select `Manual Programme Preset` with △+ or ▽– and press OK.
The `MANUAL PROGRAMME PRESET` menu appears. (See Fig. 20.)

4 Using △+ or ▽–, select the programme position you want to caption and press OK repeatedly until the first element of the LABEL position is highlighted.

5 Select a letter or number with △+ or ▽– and press OK.The next element will be highlighted.
Select other characters in the same way. If you want to leave an element blank, select – and press OK. (See Fig. 21.)

6 After selecting all the characters, press OK repeatedly until the cursor appears by the next programme position (at the left margin). Now the caption you chose is stored. (See Fig. 22.)

7 Repeat steps 5 and 6 to caption names for other channels.

If you have made a mistake
Press ⇐ to go back to the previous position.

To go back to main menu
Keep pressing ⇐.

To go back to the normal TV picture
Press MENU.

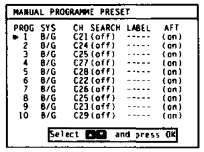

MANUAL PROGRAMME PRESET
PROG SYS CH SEARCH LABEL AFT
▶ 1 B/G C21(off) ----- (on)
2 B/G C24(off) ----- (on)
3 B/G C25(off) ----- (on)
4 B/G C27(off) ----- (on)
5 B/G C28(off) ----- (on)
6 B/G C22(off) ----- (on)
7 B/G C26(off) ----- (on)
8 B/G C25(off) ----- (on)
9 B/G C23(off) ----- (on)
10 B/G C29(off) ----- (on)
Select ◀▶ and press OK

Fig. 20.

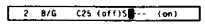


Fig. 21.

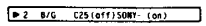


Fig. 22.

Manual Fine-Tuning

Normally, the AFT(automatic fine-tuning) is already operating. However, if the picture is distorted, you can use the manual fine tuning function to obtain better picture reception.

1 Press MENU to display the main menu.

2 Select `Preset` with △+ or ▽– and press OK.
The `PRESET` menu appears.

3 Select `Manual Programme Preset` with △+ or ▽– and press OK.
The `MANUAL PROGRAMME PRESET` menu appears. (See Fig. 23.)

4 Using △+ or ▽– , select the programme position corresponding to the channel which you want to manually fine-tune, and press OK repeatedly until the AFT position changes colour.

5 Fine-tune the channel with △+ or ▽– so that you get the best TV reception. As you press the cursor buttons, the frequency changes from -15 to +15. (See Fig. 24.)

6 After fine tuning, press OK.
The cursor appears beside the next programme position (at the left margin). (See Fig. 25.) Now the fine-tuned level is stored.

7 Repeat steps 4 to 6 to fine-tune other channels.

To reactivate AFT (automatic fine tuning)
Repeat from the beginning and select "ON" in step 5.

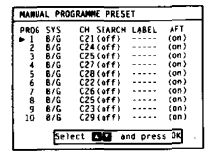

MANUAL PROGRAMME PRESET
PROG SYS CH SEARCH LABEL AFT
▶ 1 B/G C21(off) ----- (on)
2 B/G C24(off) ----- (on)
3 B/G C25(off) ----- (on)
4 B/G C27(off) ----- (on)
5 B/G C28(off) ----- (on)
6 B/G C22(off) ----- (on)
7 B/G C26(off) ----- (on)
8 B/G C25(off) ----- (on)
9 B/G C23(off) ----- (on)
10 B/G C29(off) ----- (on)
Select ◀▶ and press OK

Fig. 23.

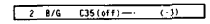


Fig. 24.

Fig. 25.

PARENTAL LOCK

Parental Lock

You can prevent undesirable broadcasts from appearing on the screen. We suggest you use this function to prevent children from watching programmes which you consider unsuitable.

1 Press MENU to display the main menu.

2 Select `Preset` with △+ or ▽– and press OK.
The `PRESET` menu appears.

3 Select `Parental Lock` with △+ or ▽– and press OK.
The `PARENTAL LOCK` menu appears. (See Fig. 26.)

4 Using △+ or ▽–, select the programme position you want to block and press OK.
The selected PROG number, CH and LABEL change colour indicating that this programme is now blocked. (See Fig. 27.)

5 Repeat step 4 to block other programme positions.

If you try to select a programme that has been blocked
The message "Locked" appears on the blank TV screen.

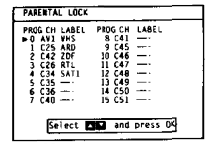

PARENTAL LOCK
PROG CH LABEL PROG CH LABEL
▶ 0 AV1 VHS 8 C41 ---
1 C25 ARD 9 C45 ---
2 C42 ZDF 10 C46 ---
3 C28 RTL 11 C47 ---
4 C34 SAT1 12 C48 ---
5 C35 --- 13 C49 ---
6 C36 --- 14 C50 ---
7 C40 --- 15 C51 ---
Select ◀▶ and press OK

Fig. 26.

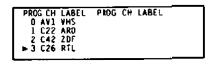


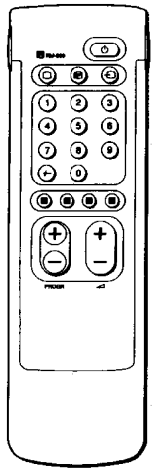
Fig. 27.

Cancelling blocking

1 On the `PARENTAL LOCK` menu, select the programme position you want to unblock with △+ or ▽–.

2 Press OK.
The selected PROG number, CH and LABEL change colour to normal colour indicating that the blocking has been cancelled.

1-4. WATCHING THE TV



If no picture appears when you depress ⏻ on the TV

and if the standby indicator on the TV is lit, the TV is in standby mode. Press ▢ or one of the number buttons to switch it on.

This section explains the basic functions you use while watching TV. Most of the operations can be done using the simple side of the Remote Commander.

Switching the TV on and off

Switching on

Depress ⏻ on the TV.

Switching off temporarily

Press ⏻ on the Remote Commander.
The TV enters standby mode and the standby indicator on the front of the TV lights up.

To switch on again

Press ▢, PROGR +/–, or one of the number buttons on the Remote Commander.

Switching off completely

Depress ⏻ on the TV.

Selecting TV Programmes

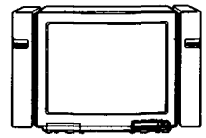
Press PROGR +/– or press number buttons.

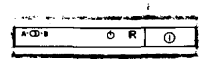
To select a double-digit number

Press -/—, then the numbers.
For example, if you want to choose 23, press -/—, 2, and 3.

Adjusting the Volume

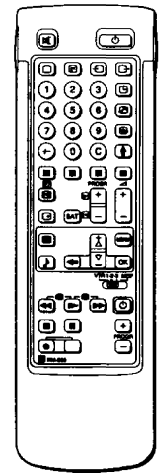
Press ■/–.





For details of the teletext operation, refer to page 47.

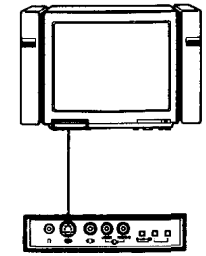
For details of the video input picture, refer to page 51.



Operating the TV Using the Buttons on the TV

With the buttons on the TV, you can select programmes, adjust the volume, and select video input sources.

- Press [P→⊿→⊙] button repeatedly until the programme number, ⊿ (for volume), or ⊙ (for video input picture) appears. Then adjust with the –/+ buttons.
- Press –/+ buttons to switch on the TV from the standby mode.
- Press –/+ simultaneously to reset picture and sound controls to the factory preset level (RESET function.)



Watching Teletext or Video Input

Watching teletext

- Press ▤ to view the teletext.
- Press three number buttons to select a page.
- Press one of the coloured buttons for fastext operation.
- Press ▶▶ (PAGE +) or ◀◀ (PAGE –) for the next or preceeding page.
- To go back to the normal TV picture, press ▢.

Watching a video input picture

Press ⊙ repeatedly until the desired video input appears. To go back to the normal TV picture, press ▢.

More Convenient Functions

Use the Full-Function side of the Remote Commander.

Displaying the on screen indications

- Press ⊡ once to display all the indications. They will disappear after some seconds.
- Press ⊡ twice to have the programme number and label stay on screen. Press twice again to make indications disappear.

Muting the sound.

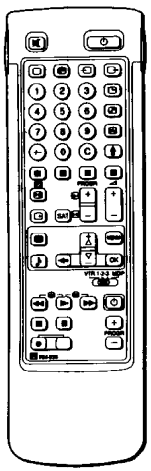
Press 🔇.
To resume normal sound, press 🔇 again.

Displaying the time

Press ⏲. This function is available only when teletext is broadcast.
To make the time display disappear, press ⏲ again.

1-5. ADJUSTING AND SETTING THE TV USING THE MENU

PICTURE CONTROL
SOUND CONTROL



Adjusting the Picture and Sound

Although the picture and sound are adjusted at the factory, you can adjust them to suit your own taste. In addition, you can change the aspect ratio of the TV display for wide screen effect, or set the resolution to obtain a higher quality picture. You can also select dual sound (bilingual) programmes when available or adjust the sound for listening with the headphones.

1 Press ● (for picture) or ♪ (for sound) on the Remote Commander.

or

Press MENU and select `Picture Control` or `Sound Control`, then press OK.
The `PICTURE CONTROL` or `SOUND CONTROL` menu appears. (See Fig. 28 or Fig. 29)

2 Using + or −, select the item you want to adjust and press OK.The selected item changes colour. (See Fig. 30)

3 Adjust the setting with + or − and press OK.
The cursor appears beside the next item (at the left margin). (See Fig. 31)
For the effect of each control, see the table below.

4 Repeat steps 2 and 3 to adjust other items.

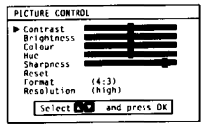


Fig. 28.

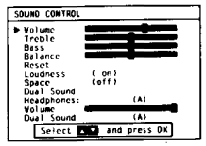


Fig. 29.

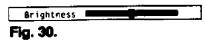


Fig. 30.

Fig. 31.

If you have made a mistake
Press ← to go back to the previous position.
To go back to the main menu
Keep pressing ←.
To go back to the normal TV picture
Press MENU.

Note
HUE is only available for NTSC colour system and RESOLUTION does not work for SECAM colour system.

Note on LINE OUT
The audio level and the dual sound mode output from the ⊖ jack on the rear correspond to the HEADPHONES VOLUME and DUAL SOUND settings.

When watching video input picture
You can select DUAL SOUND to change the sound.

Effect of each control

PICTURE CONTROL	Effect
Contrast	Less —+— More
Brightness	Darker —+— Brighter
Colour	Less —+— More
Hue	Greenish —+— Reddish
Sharpness	Softer —+— Sharper
Reset	Resets picture to the factory preset levels.
Format	4 : 3 : Normal 16 : 9 : Wide screen effect
Resolution	Normal High : Obtain a higher quality picture

SOUND CONTROL	Effect
Volume	Less —+— More
Treble	Less —+— More
Bass	Less —+— More
Balance	More left —+— More right
Reset	Resets sound to the factory preset levels.
Loudness	off : Normal on : When listening to low volume sound.
Space	off : Normal on : Obtain acoustic sound effect.
Dual Sound	A : left channel B : right channel stereo mono The selected mode of the A-CD-B indicator on the TV lights up.
Headphones:	
Volume	Less —+— More
Dual Sound	A : left channel B : right channel stereo mono

PROGRAMME TABLE

To select a programme using this menu
Select the programme number with + or − and press OK.
The selected programme appears.

To go back to the normal TV picture
Press MENU.

TIMER

To switch off the timer
Select "OFF" in step 3.

To check the remaining time
Press ⊙.

Using the Programme Table

On this table, you can see which channel is preset to which programme position. You can also select programmes using this table.

From the main menu, select `Programme Table` with + or − and press OK.
The `PROGRAMME TABLE` menu appears. (See Fig. 32)

To scroll to higher programme numbers, press −.

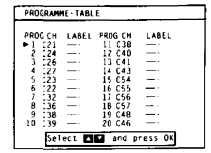

PROGRAMME-TABLE
PROG CH LABEL PROG CH LABEL
1 C21 — 11 C38 —
2 C24 — 12 C40 —
3 C26 — 13 C41 —
4 C27 — 14 C43 —
5 C23 — 15 C54 —
6 C22 — 16 C55 —
7 C32 — 17 C56 —
8 C36 — 18 C57 —
9 C38 — 19 C48 —
10 C39 — 20 C46 —
Select and press OK

Fig. 32.

Using the Sleep Timer

You can select a time period after which the TV automatically switches into standby mode.

1 From the main menu, select `Timer` with + or − and press OK.
The `Timer` menu appears. (See Fig. 33.)

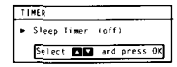


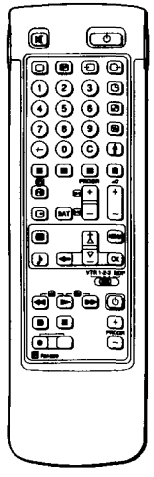
Fig. 33.

2 Press OK.
The time period option changes colour.

3 Select the time period with + or −.
The time period (in minutes) changes as follows:
10→20→30→40→50→60→70→80→90
↑ OFF ←

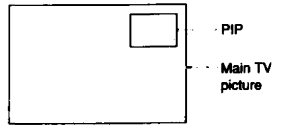
4 After selecting the time period, press OK.
The cursor moves back to the left margin and the timer starts counting.
One minute before the TV switches into standby mode, a message is displayed on the screen.

1-6. PIP (PICTURE IN PICTURE)



Note
RGB input source cannot be displayed in PIP.

With this function you can display a "PIP screen" (small picture) within the main TV picture. In this way you can watch or monitor the video output from any connected equipment (for example from a VTR) while watching TV or vice versa. For information about connection of other equipment, refer to page 50.



Switching PIP on and off

Press ◔ .
The PIP screen will be displayed. The PIP picture will come from the source chosen when the TV was last used.

To switch PIP off
Press ◔ again.

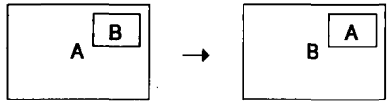
Selecting a PIP source

Press ⇑.
The symbol ⇑ will be displayed at the bottom, left-hand corner of the screen.
Press -⊖ repeatedly until the desired PIP source is indicated (e.g. TV, AV1, AV2, YC2, AV3, YC3, AV4, YC4).

Note
If no video source has been connected, the PIP picture will be noisy.

Swapping screens

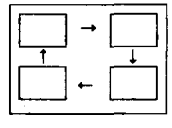
Press ◔.
The main screen will switch the picture with the PIP screen.



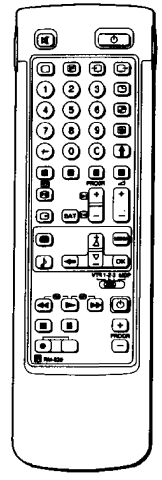
Note
If a TV programme is on the PIP screen and a video source on the main picture, and you want to change channels, first press ⇑ and then the programme buttons or PROGR +/–.

Changing the position of the PIP

Press ◔ repeatedly to change the position of the PIP screen within the main screen. There are four different positions available.



1-7. TELETEXT



Note
Teletext errors may occur if the broadcasting signals are weak.

With the simple side of the Remote Commander
You can switch teletext on and off, operate Fastext, and directly select page numbers.

Note
Fastext operation is only possible, if the TV station broadcasts Fastext signals.

TV stations broadcast an information service called Teletext via the TV channels. Teletext service allows you to receive various information pages such as weather reports or news at any time you want. For advanced teletext operation, use the buttons on the Full-Function side of the Remote Commander.

Direct Access Functions

Switching Teletext on and off

1 Select the TV channel which carries the teletext broadcast you want to watch.

2 Press ▣ to switch on teletext.
A teletext page will be displayed (usually the index page).If there is no teletext broadcast, P100 is displayed on the information line at the top of the screen.

To switch teletext off
Press ○.

Selecting a teletext page

With direct page selection

Use the number buttons to input the three digits of the chosen page number.
If you have made a mistake, type in any three digits. Then re-enter the correct page number.

With page-catching

1 Select a teletext page with a page overview (e.g. index page).

2 Press ⊞ twice. "Page catching " will be displayed on the information line. The last digit of the first displayed page number flashes.

3 Using ∨+ or ∨–, select the desired page and press OK.
The requested page will appear in a few seconds.

Accessing next or preceding page

Press ⊞ (PAGE +) or ⊞ (PAGE –).
The next or preceding page appears.

Superimposing the teletext display on the TV programme

- Press ▣ once in teletext mode or twice in TV mode.
- Press ▣ again to resume normal teletext reception.

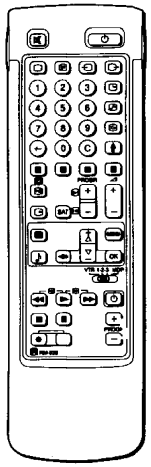
Preventing a teletext page from being updated

- Press ⊞ (HOLD). The HOLD symbol "⊞" displayed on the information line.
- Press ▣ to resume normal teletext reception.

Using Fastext

With Fastext you can access pages with one key stroke.When a Fastext page is broadcast, a colour-coded menu will appear at the bottom of the screen. The colours of this menu correspond to the red, green, yellow and blue buttons on the Remote Commander.
Press the corresponding coloured button on the Remote Commander which corresponds to the colour-coded menu. The page will be displayed after some seconds.

Using the Teletext Menu



Note
Some of the features may not be available depending on the Teletext service.

This TV is provided with a menu-guided teletext system. When teletext is switched on, you can use the menu buttons to operate the teletext menu. Select the teletext menu functions in the following way:

1 Press MENU. The menu will be superimposed on the teletext display. (See Fig. 34)

2 Using + or –, select the teletext function you want and press OK. (See Fig. 35)

USER PAGES/PRESET USER PAGES

See page 49 for information about presetting and operating the user pages.

INDEX

The index will give you an overview of the contents of the teletext and the page numbers.

TOP/BOTTOM/FULL

For convenient reading of a teletext page, you can enlarge the teletext display. After having selected the function, an information line `Top/Bottom/Full` will be displayed. (See Fig. 36)

Press + for Top to enlarge the uper half, – for Bottom to enlarge the lower one and OK for Full to resume the normal size.

Press ⓔ to resume normal teletext reception.

TEXT CLEAR

After having selected the function, you can watch a TV programme while waiting for a teletext page to be displayed. (See Fig. 37)

Press ⓔ to resume normal teletext reception.

SUBTITLES

Your teletext service will inform you if a TV programme is subtitled. After having selected the function the subtitles will be displayed.

REVEAL

Sometimes pages contain concealed information, such as answers to a quiz. The reveal option lets you disclose the information. After having selected the function, an information line "REVEAL ON/OFF" will be displayed. (See Fig. 38)

Using △+ or ▽–, select ON to reveal the information or OFF to conceal it again.

Press ⓔ to resume normal teletext reception.

TIME PAGE

Your teletext service will inform you, if a time coded page is available. You may have a page (e.g. an alarm page) displayed at a certain time.

To cancel the request
Press OK to select "OFF" for the TIME PAGE setting.

1 Press OK to select ON for the `Time Page` setting.The TV programme you were watching before you selected `Time Page` is restored. An information window will be displayed at

Fig. 34.

Fig. 35.

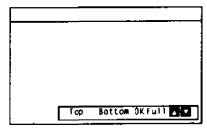


Fig. 36.

Fig. 37.

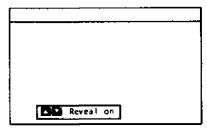


Fig. 38.

To cancel the request
Select "OFF" for the SUBPAGE setting and press OK.

If two broadcasting stations use the same Teletext
You can preset one bank to 2 different programme positions.

3 To select the desired time, enter four digits for the desired time (e.g. 1800) using the number buttons and press OK.The selected time is displayed at the top in the left-handed corner. At the requested time, the page will be displayed.

Press ⓔ to resume normal teletext mode.

SUBPAGE

You may want to select a particular teletext page from several subpages which are rotated automatically. If you want to select one subpage, follow the operations below:

1 Using + or –, select ON for the SUBPAGE setting and press OK.

2 To select the desired subpage, enter four digits using PROG +/– or the number buttons. (e.g. enter 0002 for the second page of a sequence).

User Page Bank System

You can store up to 30 pages in the "Teletext page bank system". In this way you have quick access to the pages you watch frequently.

Storing pages

There are 5 "banks" (A to E) for 5 teletext stations. In each bank you can store 6 preferred pages (P1 to P6).

1 Press ⓔ (if Teletext is not on already) and MENU to show the TELETEXT MENU display.

2 Select `Preset User Pages` with △+ or ▽– and press OK.

3 Select the desired bank with △+ or ▽– and press OK. The cursor will go to the first position (P1) of the preferred pages.

4 Input the three digits of your first preferred page with the number buttons and press OK.
The cursor will go to the second position.

5 Repeat step 4 for the other 5 page numbers you want to preset. If you do not want to preset all 6 page numbers available, press OK without inserting any number. After having finished the presetting press OK repeatedly until the cursor appears besides the next bank at the left margin.

6 Select `Allocate Bank` with △+ or ▽– and press OK.

7 Select the programme position for which you want to preset pages with △+ or ▽– and press OK. (See Fig. 39)

8 Select the desired bank with △+ or ▽– (Banks A to E are available) and press OK.

9 Repeat steps 3 to 8 for the other 4 banks available.

Displaying User Pages

1 Select MENU.

2 Select `User Pages` with △+ or ▽– and press OK.
A table of the stored preferred pages will be displayed.
(See Fig. 40)

3 Select the desired page with △+ or ▽– and press OK. The page will be displayed after some seconds.

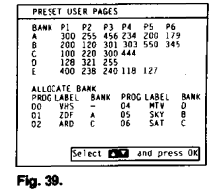

PRESET USER PAGES
BANK P1 P2 P3 P4 P5 P6
A 300 255 456 234 200 179
B 200 120 301 303 550 345
C 100 228 300 444
D 128 321 255
E 400 238 240 118 127
ALLOCATE BANK
PROG LABEL BANK PROG LABEL BANK
00 VVS – 04 MTV D
01 ZDF A 05 SKY B
02 ARD C 06 SAT C
Select OK and press OK

Fig. 39.

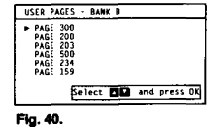


Fig. 40.

1-8. CONNECTING AND OPERATING OPTIONAL EQUIPMENT

Connecting Optional Equipment

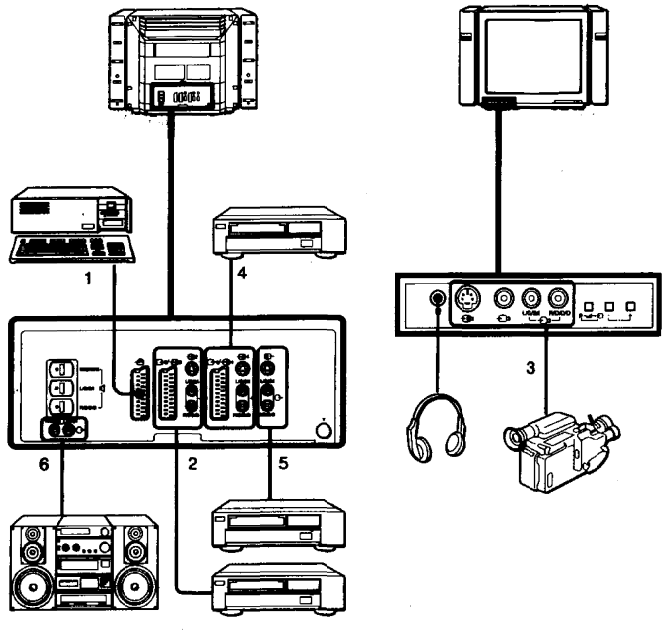
You can connect optional audio-video equipment to this TV such as VTRs, video disc players, and stereo systems.

To connect a VTR using the ⊓ terminal
Connect the aerial output of the VTR to the aerial terminal ⊓ of the TV.
We recommend that you tune in the video signal to programme number "0". For details see "Preset channels manually" on page 37.

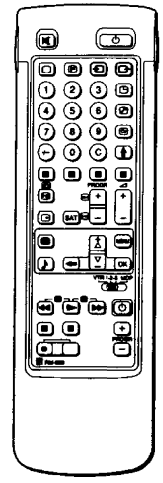
If the picture or the sound is distorted
Move the VTR away from the TV.

S-video input (Y/C input)
Video signals may be separated into Y (luminance or brightness) and C (chrominance) signals. Separating the Y and C signals prevents them from interfering with one another, and therefore improves picture quality (especially luminance). This TV is equipped with 3 S-Video input jacks through which these separated signals can be input directly.

When connecting a monaural VTR
Connect only the white ⊖ jack to both the TV and VTR.



Selecting input with PROGR +/– or number buttons
You can preset video input sources to the programme positions so that you can select them with PROGR +/– or number buttons.
For details, see "Preset channels manually" on page 37.



Acceptable input signal	Available output signal
1 Normal audio/video and RGB signal	Video/audio from TV tuner
2 Normal audio/video and S video signal	Video/audio from selected source
3 Normal audio/video and S video signal	No outputs
4 Normal audio/video and S video signal	Video/audio displayed on TV screen (monitor out)
5 No inputs	S video/audio signal displayed on TV screen (monitor out)
6 No inputs	Audio signal (variable)

Selecting input and output

This section explains how to view the video input picture (of the video source connected to your TV), and how to select the output signal using direct access buttons or the menu system.

Selecting input

Press ⊖ repeatedly to select the input source.

The symbol of the selected input source will appear.

To go back to the normal TV picture

Press ▢.

⊖ 1

Input modes

Symbol	Input signal
⊖ 1	Audio/video input through the ⊖ 1 connector
⊖	RGB input through the ⊖ 1 connector
⊖ 2	Audio/video input through the ⊖·2/–Ⓢ 2 connector
–Ⓢ 2	S video input through the ⊖·2/–Ⓢ 2 or –Ⓢ 2 connector
⊖ 3	Audio/video input through ⊖ 3 and ⊖ 3 on the front
–Ⓢ 3	S video input through the –Ⓢ 3 connectors on the front (4-pin connector)
⊖ 4	Audio/video input through the ⊖·4/–Ⓢ 4 connector
–Ⓢ 4	S video input through the ⊖·4/–Ⓢ 4 or –Ⓢ 4 connector (4-pin connector)

You can also select the input mode using the P→⊿·⊖ and –/+ buttons on the TV. In this case, first select ⊖, and then press –/+ buttons to select the input.

Selecting the output

The ⊖·2/–Ⓢ 2 connector outputs the source input from the other connectors.

Press ⊖· repeatedly to select the output.
The symbol of the selected output source appears.

1 ⊖·

Output modes

Symbol ⊖·2/–Ⓢ 2 connector outputs	
1 ⊖·	The audio/video signal from the ⊖ 1 connector
2 ⊖·	The audio/video signal from the ⊖·2/–Ⓢ 2 connector
2 Ⓢ·	The audio/S video signal from the ⊖·2/–Ⓢ connector
3 ⊖·	The audio/video signal from the –⊖ 3, ⊖ 3 connectors
3 Ⓢ·	The audio/S video signal from the –Ⓢ 3, ⊖ 3 connectors
4 ⊖·	The audio/video signal from the ⊖·4/–Ⓢ 4 connector
4 Ⓢ·	The audio/S video signal from the ⊖·4/–Ⓢ 4 connector
TV⊖·	The audio/video signal from the ⊓ aerial terminal

Checking and selecting the input and output sources using the menu

You can display the menu to see which input sources are selected for the TV screen and PIP screen, and which output source is selected. You can also select them on the menu display.

1 Select Video Connection with + or – and press OK. The VIDEO CONNECTION menu appears. (See Fig. 41)
You can see which source is selected for the TV and PIP input, and for the output. If you want to select the input and output on this menu, go on to the next step.

2 Select TV Screen (input source for the TV screen), PIP(input source for the PIP screen), or output (output source) with + or – and press OK. One of the source items changes colour. (See Fig. 42)

3 Select the desired source with + or –. (See Fig. 43)
For details about each source, see the table on page 23.

4 Press OK.
The selected source is confirmed, and the cursor appears. (See Fig. 44)

5 Repeat steps 2 to 4 to select the source for other inputs or outputs.

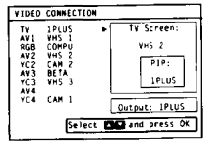


Fig. 41.

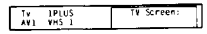


Fig. 42.

Fig. 43.

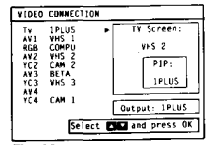


Fig. 44.

Remote Control of Other Sony Equipment

You can use the TV Remote Commander to control most of Sony remote-controlled video equipment such as: Beta, 8mm or VHS VTRs or video disc players.

Tuning the Remote Commander to the equipment

1 Set the VTR 1/2/3 MDP selector according to the equipment you want to control:

VTR 1: Beta or ED Beta VTR

VTR 2: 8mm VTR

VTR 3: VHS VTR

MDP: Video disc player

2 Use the buttons indicated in the illustration to operate the additional equipment.

If your video equipment is furnished with a COMMAND MODE selector: set this selector to the same position as the VTR 1/2/3 MDP selector on the TV Remote Commander.

If the equipment does not have a certain function, the corresponding button on the Remote Commander will not operate.

When recording
When you use the ● (record) button, make sure to press this button and the one to the right of it simultaneously.

Troubleshooting

Here are some simple solutions to problems which may affect the picture and sound.

Problem	Solution
No picture (screen is dark), no sound	• Plug the TV in. • Press ⏻ on the TV. (If ⏻ indicator is on, press ▢ or a programme number on the Remote Commander.) • Check the aerial connection. • Check if the selected video source is on. • Turn the TV off for 3 or 4 seconds and then turn it on again using ⏻.
Poor or no picture (screen is dark), but good sound	• Press ● to enter the PICTURE CONTROL menu and adjust BRIGHTNESS, CONTRAST and COLOUR.
Good picture but no sound	• Press 🔊 +. • Check loudspeakers connection. • If 🔇 is displayed on the screen, press 🔇.
No colour for colour programmes	• Press ● to enter the PICTURE CONTROL menu, select RESET, then press OK.
Remote Commander does not function.	• Replace batteries.

If you continue to have problems, have your TV serviced by qualified personnel. Never open the casing yourself.

Television Channel Number Guide (UK model only)

Only the main transmitters are listed. Information regarding the regional sub-relay channel numbers can be obtained by contacting The BBC Engineering Information Dept. (081) 752 5040.

MAIN TRANSMITTERS	BBC1	BBC2	ITV	CH4
London & South East				
Bluebell Hill	40	46	43	66
Crystal Palace	26	33	23	30
Dover	50	56	66	53
Heathfield	49	52	64	67
Oxford	57	63	60	53
South-West				
Beacon Hill	57	63	60	53
Caradon Hill	22	28	25	32
Huntshaw Cross	55	62	59	66
Redruth	51	44	41	47
Stockland Hill	33	26	23	29
Channel Islands				
Fremont Point	51	44	41	47
South				
Hannington	39	45	42	66
Midhurst	61	55	58	68
Rowridge	31	24	27	21
West				
Mendip	58	64	61	54
East				
Sandy Heath	31	27	24	21
Sudbury	51	44	41	47
Tacolneston	62	55	59	65
Midlands				
Ridge Hill	22	28	25	32
Sutton Coldfield	46	40	43	50
The Wrekin	26	33	23	29
Waldram	53	64	61	54
Northern Ireland				
Brougher Mountain	22	28	25	32
Divis	31	27	24	21
Limavady	55	62	59	65
North				
Belmont	22	29	25	32
Emley Moor	44	51	47	41
North-West				
Winter Hill	55	62	59	65
Douglas (IOM)	68	66	48	56
North-East				
Bilsdale West Moor	33	26	29	23
Caldbeck	30	34	28	32
Chatton	39	45	49	42
Pontop Pike	56	64	61	54
Laxey (IOM)	58	64	61	54
Scotland				
Angus	57	63	60	53
Black Hill	40	46	43	50
Sandale	22	-	-	-
Caldbeck	-	34	28	32
Craigkelly	31	27	24	21
Darvel	33	26	23	29
Durris	22	28	25	32
Eitshal	33	26	23	29
Keelylang Hill	40	46	43	50
Knock More	33	26	23	29
Rosemarkie	39	45	49	42
Rumster Forest	31	27	24	21
Selkirk	55	62	59	65
Wales				
Blaenplwyf	31	27	24	21
Carmel	57	63	60	53
Llanddona	57	63	60	53
Moel-y-Parc	52	45	49	42
Presely	46	40	43	50
Wenvoe	44	51	41	47

TV - Funktionen
TV operation
TV - bediening
Utilisation TV
Funzioni TV

PIP - Funktionen
PIP operation
PIP - bediening
Utilisation PIP
Funzioni PIP

Video - Funktionen
Video operation
Video - bediening
Utilisation vidéo
Funzioni video